ABSTRACT OF THE DISCLOSURE

Apparatus for mixing a chemical medium with a pulp suspension is disclosed, comprising a housing, a first feeder for feeding the pulp suspension to a mixing chamber, a rotor body connected to a rotor shaft to supply kinetic energy to the pulp suspension flow, such that turbulence is produced in a turbulent flow zone in the mixing chamber, a second feeder for feeding the chemical medium to the mixing chamber, and a flow-restraining disk in the outlet from the mixing chamber with flow passages arranged to temporarily increase the flow velocity of the pulp suspension, the second feeder comprising a chemical distribution element integrated with the rotor body to distribute the chemical medium close to the turbulent flow zone, and the rotor body comprising a number of rotor pins which extend from the rotor shaft.